



642-437^{Q&As}

Implementing Cisco Unified Communications Voice over IP and QoS
v8.0 (CVOICE v8.0)

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**QUESTION 1**

Which digit manipulation feature allows a partial telephone number to be prepended with a specific set of digits and is applied to all calls?

- A. digit prefixes
- B. forward digits
- C. digit extension
- D. number expansion

Correct Answer: D

QUESTION 2

Calls are failing to egress the local PSTN gateway that uses an E1 PRI circuit. Which debug command would be most useful in determining which dialed digits are being sent to the PSTN?

- A. debug voice dial-peer
- B. debug isdn q921
- C. debug isdn q931
- D. ccapi inout

Correct Answer: C

Explanation: Debug isdn q931 command to display information about call setup and teardown of ISDN network connections (Layer 3). In order to verify the layer 3 signaling we need to enable layer 3 signaling command. ISDN q921 is for layer 2. Debug isdn q931 shows the calling number and called number. If the calls are failing, we can also see the ISDN cause codes from the debug isdn q931 command. http://www.cisco.com/en/US/docs/ios/11_2/debug/command/reference/dipx.html#wp13263

QUESTION 3

Which of the following describes SIP Early Offer?

- A. In SIP Early Offer mode, the SDP media capabilities are sent in the INVITE message of the calling device.
- B. SIP Early Offer always uses session indicator 183.
- C. In SIP Early Offer mode, the SDP media capabilities are sent in the 200 OK messages of the calling device.
- D. In SIP Early Offer mode, the INVITE and the 200 OK messages use non-SDP message format to indicate SIP Early Offer

Correct Answer: A



QUESTION 4

Drag the statement from the left to the protocol name that is associated with it on the right.

Select and Place:

Drag the statement from the left to the protocol name that is associated with it on the right.

Provides a separate flow from RTP for transport use by UDP.	cRTP
Dynamic port usage makes it difficult to traverse firewalls.	SRTP
Is recommended for slow speed links of up to 768 kb/s.	RTP
Provides encryption, message authentication and integrity, and replay protection.	RTCP

Correct Answer:



Drag the statement from the left to the protocol name that is associated with it on the right.

	cRTP Is recommended for slow speed links (up to 768 kb/s).
	SRTP Provides encryption, message authentication and integrity, and replay protection.
	RTP Dynamic port usage makes it difficult to traverse firewalls.
	RTCP Provides a separate flow from RTP for transport use by UDP.

Explanation/Reference:

The Real-Time Transport Protocol (RTP) is an Internet protocol standard that specifies a way for programs to manage the real-time transmission of multimedia data over either unicast or multicast network services. RTP is commonly used in Internet telephony applications. RTP does not in itself guarantee real-time delivery of multimedia data; it does, however, provide the wherewithal to manage the data as it arrives to best effect. RTP combines its data transport with a control protocol (RTCP), which makes it possible to monitor data delivery for large multicast networks. When protocols are used in conjunction, RTP is originated and received on even port numbers and the associated RTCP communication uses the next higher odd port number. Monitoring allows the receiver to detect if there is any packet loss and to compensate. The Secure Real-time Transport Protocol (or SRTP) defines a profile of RTP (Real-time Transport Protocol), intended to provide encryption, message authentication and integrity, and replay protection to the RTP data in both unicast and multicast applications. Since RTP is closely related to RTCP (Real Time Control Protocol) which can be used to control the RTP session, SRTP also has a sister protocol, called Secure RTCP (or SRTCP); SRTCP provides the same security-related features to RTCP, as the ones provided by SRTP to RTP. Utilization of SRTP or SRTCP is optional to the utilization of RTP or RTCP; but even if SRTP/SRTCP are used, all provided features (such as encryption and

authentication) are optional and can be separately enabled or disabled. The only exception is the message authentication feature which is indispensably required when using SRTCP.

On slow links, it may be advantageous to compress the IP/UDP/RTP headers using Compressed RTP (cRTP). If you use cRTP then the 40 bytes of overhead incurred by the IP/UDP/RTP

headers can typically be compressed down to 2 to 4 bytes (2 bytes when no UDP checksums are sent, and 4 bytes when checksums are sent). Enabling compression on both ends of a lowbandwidth serial link can greatly reduce the network

overhead if it carries a lot of RTP traffic.

cRTP is supported on serial lines using Frame Relay, HDLC, or PPP encapsulation. It is also supported over ISDN interfaces. CRTP should not be used on links greater than 2 Mbps.



QUESTION 5

What is a Cisco Voice Gateway feature that enables class of service or calling privileges to be assigned?

- A. COR
- B. dial peer
- C. partition
- D. calling search space

Correct Answer: A

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